

## ABSTRACT

A data processing system of the invention comprises a special purpose data processing unit for executing a series of predetermined data processings by a special purpose instruction and a general purpose data processing unit for executing processings designated by general purpose instructions. The special purpose data processing unit has a dedicated circuit portion specialized in specific data processings and a sequence control portion that supplies the dedicated circuit portion with control signals to control the dedicated circuit portion in accordance with a predetermined processing procedure. In addition, the general purpose data processing unit can control the dedicated circuit portion in accordance with a procedure different from the processing procedure preset in the sequence control portion. Thus, it is possible to provide the data processing system that can flexibly deal with even such alterations as have an influence on the specification of the special purpose data processing unit.